

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2003141946  
PUBLICATION DATE : 16-05-03

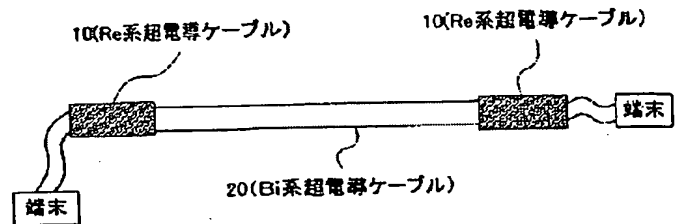
APPLICATION DATE : 02-11-01  
APPLICATION NUMBER : 2001338470

APPLICANT : SUMITOMO ELECTRIC IND LTD;

INVENTOR : DAIMATSU KAZUYA;

INT.CL. : H01B 12/02 H02H 9/02

TITLE : SUPERCONDUCTING CABLE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a superconducting cable with current-limiting function which can attenuate current by generating resistance the instant critical current of a superconductor is surpassed, and a superconducting cable line using the cable.

SOLUTION: A superconducting cable line uses a superconducting cable. The superconducting cable is provided with a base part 20, and a current limiting part 10 which attenuates current in case large current larger than the rated current of the base part 20 flows. The current limiting part 10 is provided with a conductor layer aggregating a plurality of superconducting wires forming an Re system superconducting layer film on a metal board. The base part 20 is a cable using superconducting wires made of superconductors other than the Re system one.

COPYRIGHT: (C)2003,JPO